Special Issue

State-of-the-Art Coordination Polymers: Synthesis and Multifunctional Applications

Message from the Guest Editors

In recent years, coordination polymers (CPs) have emerged as an exciting class of crystalline materials with diverse structures and tunable functionalities, making them highly relevant for cutting-edge scientific and technological applications. This Special Issue aims to highlight recent advances in the synthesis, structural design, and multifunctional properties of CPs, with an emphasis on innovative methodologies, structure–property relationships, and emerging applications. The focus will be on both fundamental insights and practical approaches that expand the utility of CPs in fields such as catalysis, gas storage and separation, sensing, magnetism, photoluminescence, drug delivery, and environmental remediation. Suitable topics for this Special Issue include, but are not limited to, novel synthetic strategies using CPs, post-synthetic CP modifications, advanced CP characterization techniques, computational modeling of CPs, and multifunctional applications of CPs in the fields of energy, the environment, and biomedicine.

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